

Title (en)

QUATERNARY AMMONIUM COMPOUNDS AND METHOD FOR THEIR MANUFACTURE.

Title (de)

QUATERNÄRE AMMONIUMVERBINDUNGEN UND DEREN HERSTELLUNGSVERFAHREN.

Title (fr)

COMPOSES D'AMMONIUM QUATERNAIRES ET LEUR PROCEDE DE PRODUCTION.

Publication

**EP 0131051 A4 19870902 (EN)**

Application

**EP 84900662 A 19840106**

Priority

US 45623983 A 19830107

Abstract (en)

[origin: WO8402701A1] Quaternary ammonium compounds having the general formula (I), wherein m is either 0, 1, 2, or 3; each R5 may be the same or different and are selected from the groups including straight- or branched-chain alkyl or alkenyl radicals having from 1 to 30 carbon atoms, inclusive, or a phenyl or benzyl radical; R2 is H-, a C1 to C10 straight- or branched-chain alkyl or alkenyl radical, a phenyl group, a benzyl group, or a halogenated alkyl group; R3 and R4 are different or the same and are selected from the group including H-, or a C1 to C10 straight- or branched-chain alkyl or alkenyl radical, a phenyl group, or a benzyl group, and wherein n is an integer between 0 and 30, inclusive, and methods for their manufacture.

IPC 1-7

**C07C 107/02**

IPC 8 full level

**C07C 67/00** (2006.01); **C07C 213/00** (2006.01); **C07C 215/40** (2006.01); **C07C 217/08** (2006.01); **C07F 5/02** (2006.01); **C07F 5/04** (2006.01); **C08G 18/00** (2006.01); **C08G 18/08** (2006.01); **C08G 18/18** (2006.01); **C08G 18/32** (2006.01); **C08G 18/38** (2006.01); **C08G 18/50** (2006.01); **C08G 65/26** (2006.01)

CPC (source: EP US)

**C07F 5/022** (2013.01 - EP US); **C07F 5/04** (2013.01 - EP US); **C08G 18/0814** (2013.01 - EP US); **C08G 18/1875** (2013.01 - EP US); **C08G 18/3271** (2013.01 - EP US); **C08G 18/3897** (2013.01 - EP US); **C08G 18/5021** (2013.01 - EP US); **C08G 65/2621** (2013.01 - EP US); **C08G 2115/02** (2021.01 - EP US)

Citation (search report)

- [X] FR 1287367 A 19620316 - KOPPERS CO INC
- [A] US 3169983 A 19650216 - HUNTER DON L

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**WO 8402701 A1 19840719**; AU 2436084 A 19840802; AU 573567 B2 19880616; CA 1227217 A 19870922; DE 3480650 D1 19900111; EP 0131051 A1 19850116; EP 0131051 A4 19870902; EP 0131051 B1 19891206; JP S60500212 A 19850221; US 4544506 A 19851001

DOCDB simple family (application)

**US 8400010 W 19840106**; AU 2436084 A 19840106; CA 444834 A 19840106; DE 3480650 T 19840106; EP 84900662 A 19840106; JP 50064384 A 19840106; US 45623983 A 19830107